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SEUNET

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EURITECT:

Satissiad Costs of the Soviet Space Progress

- I. There is no direct information evaluable to the actual expenditures of the USER for its space achievements to date or for the developmental with already accomplished for as yet unidentified future epoce programs. Retirates of these expenditures, therefore, the subject to wide ranges of uncertainty and must be regarded as tentative.
- 2. In concept, the estimates of Cowlet middle expenditures for rescarch, development, test and evaluation (EDIDE) include much if not all of the cost of the Soviet space affort. Soverer, the breakdown of this entegrity of expenditures is not available at this time. Consequently, the expenditures for Soviet space programs discussed in this manufactor are preliminary estimates expressed in equivalent to delivers and at present cannot be related to the appreciate EDIDE estimates. According to tress preliminary estimates, the cumulative costs of the Soviet space programs through 1963 are equivalent to at least 5 billion delivers and perhaps as much as 10 billion delivers.
- In the absence of direct information, estimates of costs for programs in the flight-test phase are made by valuing each observed Seviet program as if it were conducted in the US. This method entails selecting the most closely corresponding US program, adjusting the actual or estimated US costs for fundamental differences in US and Seviet program pathosophies, hardware characteristics, and operational procedures, and finally, distributing the estimated Coviet costs through time for each program in accordance with the general pattern of expenditures in the analogous US program. The resulting estimates accessarily include a range to accord for the difficulty of acdifying US date to reflect the each of Seviet activity.
- b. Even greater uncertainties are involved in estimating the east of Saviet progress probably now undersay but not yet identified through detection of flight tests. For example, the USER probably has already sade a considerable initial investment in a future effort

to land a non on the acce, even if this effect is not competitive with the US Apolic program. If the Seviet effect is to be competitive, the expenditures to dote could except to the equivalent of several billion dollars. As yet, accept, the Ervict timetable for a manual legar landing is not known. An additional reage, therefore, is included in the cost estimates to account for the materialities regarding this and other undetected programs.

- The current estimates of spenal Soviet expenditures for spend flight are given in the table. In spite of the use of military boostors and facilities for space missions, Soviet outlays for space programs probably totaled in the neighborhood of 2 billion dollars through 1959, or roughly twice total the space expenditures up to that time. Although costly, this investment said handers dividends to the USER in the form of a series of spentaminer space accomplishments which created an aura of Soviet technological superiority and helped must Soviet extrategic weakness during this period. The estimated expenditures through 1969 reflect not only the costs of developing and launching the early toputals and laner protes, but also the bravy developmental rests and other protes, but also the bravy developmental rests and like processes which were to appear in the early 1960s.
- 6. An indicated in the table, the renge of uncertainty is the estimates for the years through 1961 is relatively marrow, insemuch as these estimates have been constructed on the basis of historically charved activity through 1963. Although the level of expenditures shown for the period 1969-1961 remained about constant, actual Soviet outlays probably increased during this partial, particularly in 1961, as a result of the development costs for new programs and new sysce hardware to be flown during the 1964-1965 period. Until these programs result in identifiable activity, however, there is no realistic basis for judging were precisely the level and rate of expenditures allready incurred.
- The level of current and future flowist space cutlays depends on whether the Soviets are involved in a competitive program to land a man on the occan in this decade, and on whether the Soviets will agree to US offers of cooperation in a joint lunar venture. As yet, there has been no clear-out reaction from the USER to this cooperative offer. There are indications, however, that the Soviets intend to continue an aggressive space flight program in the next few years, involving new missions and new space systems, and there seems little doubt that Soviet expenditures for space will continue to grow. Additional evidence during the next year or so should provide a clearer indication of Soviet intentions and objectives in space and form a basis for more refined cost excisates.

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-	E. T.	Expenditures* (ed)licas of Gollers)	
	1957 end Prior	600 - 900	* :
	1958	400 - 600	
,	1959	700 - 1,000	Ε.
	1980	700 - 1,000	
<u> </u>	1961	700 - 1,100	
	3962	1,000 - 2,100	
	1663	1,400 - 3,300	* * *
. 1	1964	2,000 - 5,000	

⁴ The lower limit of the estimates includes some allowance for a mained lower landing progrem which is not competitive with the current US schedule; the upper limit reflects an ellowance for a competitive named luner landing progrems.